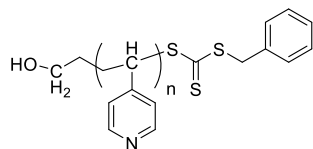


Sample Name:  
**Hydroxy Terminated Poly(4-Vinyl Pyridine)**

Sample #: **P44109-4VPOH**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
2.0	1.28
Functionality: 95%	
$T_g$ for the functional polymer	

**Synthesis Procedure:**

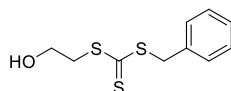
Hydroxy terminated poly(4-vinyl pyridine) was prepared by RAFT process using Following Reagent;

**Synthesis Procedure:**

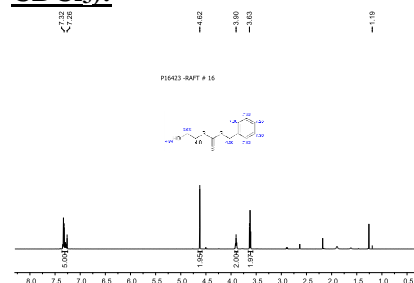
The polymer is prepared by RAFT polymerization of styrene and 4-vinylpyridine. Following RAFT reagent was used.

**Benzyl-2-hydroxyethyltrithiocarbonat**

**Structure:**



**$^1\text{H-NMR}$  spectrum of RAFT (400 MHz,  $\text{CDCl}_3$ ):**



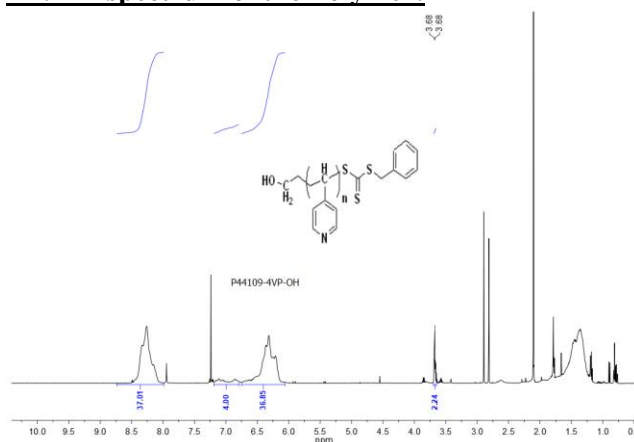
**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Solubility:**

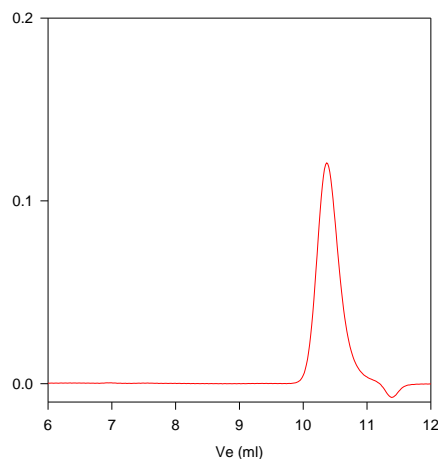
Polymer is soluble in  $\text{CHCl}_3$  and THF, methanol.

**$^1\text{H-NMR}$  spectrum of the Polymer:**



**SEC profile of the Sample:**

**P44109-4VPOH**



Size Exclusion Chromatography of Poly(4-vinylpyridine)

$M_n=2000$ ,  $M_w=2500$ ,  $PI=1.28$